

TOPIC 5 - WORKSHOP ON ESTIMATING THE COSTS AND BENEFITS OF NUCLEAR ACTIVITIES

Tuesday, 6 October 2015
Conference Room, Nuclear Fuel Cycle Royal Commission
Level 5, 50 Grenfell Street, Adelaide SA 5000

Purpose of the Public Session

This public session will incorporate a series of presentations on the socio-economic analyses being undertaken at the request of the Royal Commission to estimate the costs and benefits of establishing new nuclear activities in South Australia. During those presentations, each contractor carrying out the work will present:

- + the methodology being applied in undertaking the assessments;
- + the key inputs to the assessments; and
- + the types of outputs which are anticipated.

Quantitative Analyses and Business Case for Uranium Conversion, Enrichment and Fuel Fabrication Facilities in South Australia (9am, by video conference)

Quantitative analyses will be undertaken to determine engineering, procurement, construction and lifecycle operating and maintenance costs associated with the possible development of facilities in South Australia for the processing of uranium oxide into fuel for use in nuclear reactors. The case studies to be considered are the establishment of conversion, enrichment and fuel fabrication processes for a light water reactor (LWR) and conversion and fuel fabrication processes for a pressurised heavy water reactor (PHWR).

Presentation to be given by:

- + Mr Brian Gihm, Hatch Pty Ltd

Quantitative Analyses and Business Case for Establishing a Nuclear Power Plant and Systems in South Australia (9:45am)

Quantitative analyses will be undertaken to determine engineering, procurement, construction and lifecycle operating and maintenance costs associated with the possible development of three different types of nuclear power generation facilities in South Australia. The types of facilities to be considered are the small modular reactor (SMR), the pressurised heavy water reactor (PHWR) and the light water reactor (LWR).

Presentation to be given by:

- + Mr David Downing, WSP | Parsons Brinckerhoff
- + Mr Kenneth Green, Sargent & Lundy

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Quantitative Analyses and Business Case for Radioactive Waste Storage and Disposal Facilities in South Australia (10:30am)

Quantitative analyses will be undertaken to determine engineering, procurement, construction and lifecycle operating and maintenance costs associated with the possible development of four different types of radioactive waste management facilities in South Australia. The scenarios to be considered are a surface/near-surface low level waste management facility, a tunnel low and intermediate level waste management facility, a centralised dry cask spent fuel storage facility and a deep geological disposal facility.

Presentation to be given by:

- + Mr Tim Johnson, Jacobs Engineering Group

Quantitative Viability Analyses of Electricity Generation from Nuclear Fuels (11:15am)

Quantitative viability analyses will be undertaken to assess the economic viability of integrating nuclear power generation technologies into the suite of renewable and fossil-fuel technologies that are likely to supply the National Energy Market during the years of 2030 and 2050.

Presentation to be given by:

- + Mr Robert Riebolge, Consultant
- + Mr David Lenton, Consultant

Computational General Equilibrium Modelling Assessments (12pm)

Computational general equilibrium modelling assessments will be undertaken to determine the economy-wide effects of labour, capital and primary resource flows (both inter-state and intra-state) which would result from an investment in any part of the nuclear fuel cycle in South Australia.

Presentation to be given by:

- + Mr Craig Mickle, Ernst & Young
- + Dr Jyothi Gali, Ernst & Young

Following the conclusion of the public session, interested individuals or organisations can if they wish make comments in writing on the assumptions and methodology used in the analyses. The Commission will consider the comments in its approach to the work being undertaken. Comments may be made by email to eco.analyses@nuclearrc.sa.gov.au or by post to GPO Box 11043, ADELAIDE SA 5001. The closing date for comments to be made will be 5pm (AEST) on Tuesday 20 October 2015.

